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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/670,087

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Dave Rotheroe

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EXAMINER

SUN, XIUQIN

ART UNIT

PAPER NUMBER

2863

DATE MAILED: 10/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/670,087

Applicant(s)

ROTHEROE, DAVE

Examiner

Xiuqin Sun

Art Unit

2863

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 01 September 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-45 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-45 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09/01/2005 has been entered.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 10, 20, 27 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oliver et al. (U.S. Pub. No. 20030225876) in view of Swisher et al. (U.S. Pub. No. 20040015309).

In regard to claims 1, 10, 20 and 35:

Oliver et al. teach a method and apparatus of monitoring measured parameters associated with each piece of equipment in an array of electronic equipment, comprising: retrieving data representing the measured parameters (Fig. 8; sections 0027 and 0054); mapping the measured parameters to color codes (Fig. 8; sections

Art Unit: 2863

0026 and 0038); displaying a graphic representation of the array of electronic equipment (Fig. 8; sections 0009, 0028, 0029); and in the graphic representation, representing each piece of electronic equipment in the array with the color mapped to a measured parameter associated with the piece of electronic equipment (Fig. 8; sections 0009, 0028, 0029, 0054 and 0055). Oliver et al. further teach a computer readable storage medium storing instructions that, when executed on a programmed processor, carry out the method recited above (Figs. 2 and 5; sections 0030-0034 and 0042). The teaching of Oliver further includes: rendering a graphic representation of the array of electronic equipment for display on a display (sections 0009, 0028, 0029, 0054 and 0055).

Oliver et al. do not mention explicitly: retrieving data representing the measured parameters from a database; said graphic representation further depicting the equipment rack with a graphic representation of each piece of equipment situated in a position of the graphic representation of the equipment rack corresponding to the physical location of the equipment in the equipment rack.

Swisher et al. disclose a method and system for modeling and analyzing a network infrastructure, and teach the step and means of: retrieving data representing the information to be displayed for data visual analysis from a database (sections 0042 and 0253); displaying a graphic representation of the array of electronic equipment (sections 0016, 0024 and 0036); wherein said graphic representation further depicting the equipment rack with a graphic representation of each piece of equipment situated in a position of the graphic representation of the equipment rack corresponding to the

Art Unit: 2863

physical location of the equipment in the equipment rack (sections 0016, 0024 and 0036).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include GIS (geographical information system) features, as taught by Swisher et al., in the invention of Oliver et al. in order to allow a user to pinpoint spot any equipment to be monitored on the rack geographically (Swisher et al., Abstract).

In regard to claim 27:

Oliver et al. further teach a system that displays measured parameters associated with a plurality of pieces of equipment in an array of electronic equipment (see Abstract), comprising: a communication circuit that receives data representing the measured parameters from the plurality of pieces of equipment (Fig. 2); a computer programmed to carry out the functions of (Figs. 5 and 8): receiving the data that relates the measured parameters to the plurality of pieces of equipment (sections 0027 and 0054); mapping the measured parameters to color codes (sections 0026 and 0038); rendering a graphic representation of the array of electronic equipment (sections 0009, 0028, 0029, 0054 and 0055); and wherein, in the graphic representation, each piece of electronic equipment in the array is represented with the color mapped to a measured parameter associated with the piece of electronic equipment (sections 0009, 0028, 0029, 0054 and 0055).

Oliver et al. do not mention explicitly: storing the measured data in a database; said graphic representation further depicting the equipment rack with a graphic

Art Unit: 2863

representation of each piece of equipment situated in a position of the graphic representation of the equipment rack corresponding to the physical location of the equipment in the equipment rack.

Swisher et al. disclose a method and system for modeling and analyzing a network infrastructure, and teach the step and means of: storing the data representing the information to be displayed for data visual analysis in a database (sections 0042 and 0253); displaying a graphic representation of the array of electronic equipment (sections 0016, 0024 and 0036); wherein said graphic representation further depicting the equipment rack with a graphic representation of each piece of equipment situated in a position of the graphic representation of the equipment rack corresponding to the physical location of the equipment in the equipment rack (sections 0016, 0024 and 0036).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include GIS (geographical information system) features, as taught by Swisher et al., in the invention of Oliver et al. in order to allow a user to pinpoint spot any equipment to be monitored on the rack geographically (Swisher et al., Abstract).

4. Claims 3-7, 9, 22-26, 29-33 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oliver et al. in view of Swisher et al., as applied to claims 1, 10, 20 and 35 above, and further in view of Wolton et al. (U.S. Pub. No. 20040030741).

In regard to claims 3-7, 9, 22-26, 29-33 and 37:

Oliver et al. further includes: receiving an input from a user interface that indicates a change in view has been selected by an operator (sections 0028 and 0029); re-displaying the graphic representation of the array of electronic equipment to change to the view selected by the operator (Fig. 8; sections 0009, 0028, 0029, 0054 and 0055); and in the graphic representation, representing each piece of electronic equipment in the array with the color mapped to the measured parameter (Fig. 8; sections 0009, 0028, 0029, 0054 and 0055); and said method is carried out in a programmed processor (Figs. 2 and 5).

Oliver et al. in view of Swisher et al. do not mention explicitly: said view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the graphic representation; said graphic representation comprises a three-dimensional graphic representation, and wherein the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the graphic representation; said graphic representation comprises a three-dimensional graphic representation; said graphic representation comprises a two-dimensional graphic representation.

The teaching of Wolton et al. includes: the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the graphic representation (sections 0055, 0057-0059, 0081, 0153, 0290, 0413, 0586 and 0589); the graphic representation comprises a three-dimensional graphic representation, and wherein the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the

Art Unit: 2863

graphic representation (sections 0055, 0057-0059, 0081, 0153, 0290, 0413, 0586 and 0589); the graphic representation comprises a three-dimensional graphic representation (sections 0055, 0057-0059, 0081, 0153, 0290, 0413, 0586 and 0589); the graphic representation comprises a two-dimensional graphic representation (sections 0055, 0057-0059, 0081, 0153, 0290, 0413, 0586 and 0589).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the teaching of Wolton et al. in the combination of Oliver et al. and Swisher et al. in order to provide a comprehensive and user-friendly data visualization method and system for analyzing data information collected from networks of electronic equipments (Wolton et al., Abstract and sections 0057-0059).

5. Claims 11, 17, 38 and 43-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oliver et al. in view of Swisher et al. and Wolton et al.

In regard to claims 11 and 17:

Oliver et al. teach a method of displaying measured parameters associated with each piece of equipment in an array of electronic equipment, comprising: retrieving data representing the measured parameters (Fig. 8; sections 0027 and 0054); mapping the measured parameters to color codes (Fig. 8; sections 0026 and 0038); displaying a graphic representation of the array of electronic equipment (Fig. 8; sections 0009, 0028, 0029); and in the graphic representation, representing each piece of electronic equipment in the array with the color mapped to a measured parameter associated with the piece of electronic equipment (Fig. 8; sections 0009, 0028, 0029, 0054 and 0055). Oliver et al. further teach a computer readable storage medium storing instructions that,



when executed on a programmed processor, carry out the method recited above (Figs. 2 and 5; sections 0030-0034 and 0042).

Oliver et al. do not mention explicitly: retrieving data representing the measured parameters from a database; said graphic representation further depicting the equipment rack with a graphic representation of each piece of equipment situated in a position of the graphic representation of the equipment rack corresponding to the physical location of the equipment in the equipment rack; displaying a three-dimensional graphic representation of the array of electronic equipment.

Swisher et al. disclose a method and system for modeling and analyzing a network infrastructure, and teach the step and means of: retrieving data representing the information to be displayed for data visual analysis from a database (sections 0042 and 0253); displaying a graphic representation of the array of electronic equipment (sections 0016, 0024 and 0036); wherein said graphic representation further depicting the equipment rack with a graphic representation of each piece of equipment situated in a position of the graphic representation of the equipment rack corresponding to the physical location of the equipment in the equipment rack (sections 0016, 0024 and 0036).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include GIS (geographical information system) features, as taught by Swisher et al., in the invention of Oliver et al. in order to allow a user to pinpoint spot any equipment to be monitored on the rack geographically (Swisher et al., Abstract).

Wolton et al. teach a method and apparatus for search, visual navigation, analysis and retrieval of information from networks, including the graphic representation that comprises a three-dimensional graphic representation (sections 0055, 0057-0059, 0081, 0153, 0290, 0413, 0586 and 0589).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the teaching of Wolton et al. in the invention of Oliver et al. in order to provide a comprehensive and user-friendly data visualization method and system for automatically engaging certain search and data retrieval activities on behalf of the user and analyzing data collected from networks of electronic equipments (Wolton et al., Abstract; sections 0057-0059 and 0161).

In regard to claim 13 and 16:

Oliver et al. further includes: said method is carried out in a programmed processor (Figs. 2 and 5).

Oliver et al. in view of Swisher et al. do not mention explicitly: the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the three-dimensional graphic representation.

The teaching of Wolton et al. further includes: the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the three-dimensional graphic representation (sections 0055, 0057-0059, 0081, 0153, 0290, 0413, 0586 and 0589).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the teaching of Wolton et al. in the combination of Oliver

Art Unit: 2863

et al. and Swisher et al. in order to provide a comprehensive and user-friendly data visualization method and system for analyzing data information collected from networks of electronic equipments (Wolton et al., Abstract and sections 0057-0059).

In regard to claims 38 and 43-44:

Oliver et al. teach a method of monitoring a predetermined parameter in each of a plurality of electrical devices located in a locality (see Abstract), comprising: generating a user graphical display of graphical representations of the devices as positioned in the locality (Fig. 8; sections 0009, 0028, 0029, 0054 and 0055); and coloring each of the graphical representations of the devices with a predetermined color corresponding to a currently measured value of the predetermined parameter for the corresponding device (Fig. 8; sections 0009, 0028, 0029, 0054 and 0055).

Oliver et al. do not mention explicitly: said user graphical display is navigable; said graphic representation further depicting the equipment rack with a graphic representation of each piece of equipment situated in a position of the graphic representation of the equipment rack corresponding to the physical location of the equipment in the equipment rack; the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the graphic representation; the graphic representation comprises a three-dimensional graphic representation; the graphic representation comprises a two-dimensional graphic representation.

Swisher et al. disclose a method and system for modeling and analyzing a network infrastructure, and teach: a user graphical display that is navigable (sections

Art Unit: 2863

0016, 0024 and 0036); a graphic representation of the array of electronic equipment (sections 0016, 0024 and 0036); wherein said graphic representation further depicting the equipment rack with a graphic representation of each piece of equipment situated in a position of the graphic representation of the equipment rack corresponding to the physical location of the equipment in the equipment rack (sections 0016, 0024 and 0036).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include GIS (geographical information system) features, as taught by Swisher et al., in the invention of Oliver et al. in order to allow a user to pinpoint spot any equipment to be monitored on the rack geographically (Swisher et al., Abstract).

Wolton et al. teach a user graphical display of graphical representations of a system for monitoring an array of electronic devices (sections 0055, 0057-0059, 0081, 0153, 0290, 0413, 0586 and 0589); the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the graphic representation (sections 0055, 0057-0059, 0081, 0153, 0290, 0413, 0586 and 0589); the graphic representation comprises a three-dimensional graphic representation (sections 0055, 0057-0059, 0081, 0153, 0290, 0413, 0586 and 0589); the graphic representation comprises a two-dimensional graphic representation (sections 0055, 0057-0059, 0081, 0153, 0290, 0413, 0586 and 0589).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the teaching of Wolton et al. in the invention of Oliver et

Art Unit: 2863

al. in order to provide a comprehensive and user-friendly data visualization method and system for analyzing data information collected from networks of electronic equipments (Wolton et al., Abstract and sections 0057-0059).

6. Claims 2, 21, 28 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oliver et al. in view of Swisher et al., as applied to claims 1, 20, 27 and 35 above, and further in view of Wolton et al. and Shimada et al. (U.S. Pat. No. 6757580).

Oliver et al. and Swisher et al. teach the method including the subject matter discussed above. The teaching of Oliver et al. further include: receiving an input from a user interface that indicates a change in view has been selected by an operator (sections 0028 and 0029), and re-generating the graphic display to change to the view selected by the operator (sections 0009, 0028, 0029, 0054 and 0055).

Oliver et al. in view of Swisher et al. do not mention: a graphic representation comprises a three-dimensional graphic representation, and wherein the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the graphic representation; receiving updated parameters from the electronic equipment and storing the updated parameters in the database on a periodic basis; determining that a database update has occurred; and retrieving updated measured parameters from the database for re-displaying.

The teaching of Wolton et al. includes: a graphic representation comprises a three-dimensional graphic representation, and wherein the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view

Art Unit: 2863

and a zoomed view of the graphic representation (sections 0055, 0057-0059, 0081, 0153, 0290, 0413, 0586 and 0589).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the teaching of Wolton et al. in the combination of Oliver et al. and Swisher et al. in order to provide a comprehensive and user-friendly data visualization method and system for analyzing data information collected from networks of electronic equipments (Wolton et al., Abstract and sections 0057-0059).

Shimada et al. teach an electronic device monitoring system, including: receiving updated parameters from the electronic equipment and storing the updated parameters in the database on a periodic basis (col. 7, lines 36-39; col. 7, lines 62-67; col. 8, lines 1-16 and col. 10, lines 3-19); determining that a database update has occurred (col. 14, lines 3-13 and lines 18-24); and retrieving updated measured parameters from the database for graphical display (col. 19, lines 66-67 and col. 20, lines 1-21).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the teaching of Shimada et al. in the combination of Oliver and Swisher in order to provide a mechanism through which the newest data information collected from the monitoring system can be displayed and analyzed (Shimada et al., col. 19, lines 66-67; col. 20, lines 1-21 and col. 14, lines 3-13 and lines 18-24).

7. Claims 12, 15 and 39 -42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oliver et al. (U.S. Pub. No. 20030225876) in view of Swisher et al.

and Wolton et al., as applied to claims 11 and 38 above, and further in view of Shimada et al. (U.S. Pat. No. 6757580).

Oliver et al., Swisher et al. and Wolton et al. teach the method including the subject matter discussed above. The teaching of Oliver et al. further include: receiving an input from a user interface that indicates a change in view has been selected by an operator (sections 0028 and 0029), and re-generating the graphic display to change to the view selected by the operator (sections 0009, 0028, 0029, 0054 and 0055). The teaching of Wolton et al. includes: a graphic representation comprises a three-dimensional graphic representation, and wherein the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the graphic representation (sections 0055, 0057-0059, 0081, 0153, 0290, 0413, 0586 and 0589).

Oliver et al. in view of Swisher et al. and Wolton et al. do not mention: receiving updated parameters from the electronic equipment and storing the updated parameters in the database on a periodic basis; determining that a database update has occurred; and retrieving updated measured parameters from the database for re-displaying.

Shimada et al. teach an electronic device monitoring system, including: receiving updated parameters from the electronic equipment and storing the updated parameters in the database on a periodic basis (col. 7, lines 36-39; col. 7, lines 62-67; col. 8, lines 1-16 and col. 10, lines 3-19); determining that a database update has occurred (col. 14, lines 3-13 and lines 18-24); and retrieving updated measured parameters from the database for graphical display (col. 19, lines 66-67 and col. 20, lines 1-21).

Art Unit: 2863

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the teaching of Shimada et al. in the combination of Oliver, Swisher and Wolton in order to provide a mechanism through which the newest data information collected from the monitoring system can be displayed and analyzed (Shimada et al., col. 19, lines 66-67; col. 20, lines 1-21 and col. 14, lines 3-13 and lines 18-24).

8. Claims 8 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oliver et al. in view of Swisher et al., as applied to claims 1 and 27 above, and further in view of Duffy et al. (U.S. Pub. No. 20020171985).

Oliver et al. and Swisher et al. teach the method including the subject matter discussed above. The combination of Oliver and Swisher does not mention explicitly: the measured parameter comprises one of temperature, power, current and voltage.

Duffy et al. teach a system, device and method for monitoring and managing microelectronic device (see Abstract), including: measuring parameters such as temperature, power, current and voltage (sections 0065 and 0083).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the teaching of Duffy et al. in the combination of Oliver and Swisher in order to provide a method and system that is capable of monitoring power-supply induced thermal anomalies of electronic devices (Duffy et al., sections 0065 and 0083).

9. Claims 14 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oliver et al. (U.S. Pub. No. 20030225876) in view of Swisher et al. and Wolton et



Art Unit: 2863

al., as applied to claims 11 and 38 above, and further in view of Duffy et al. (U.S. Pub. No. 20020171985).

Oliver et al., Swisher et al. and Wolton et al. teach the method including the subject matter discussed above. The combination of Oliver, Swisher and Wolton does not mention explicitly: the measured parameter comprises one of temperature, power, current and voltage.

Duffy et al. teach a system, device and method for monitoring and managing microelectronic device (see Abstract), including: measuring parameters such as temperature, power, current and voltage (sections 0065 and 0083).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the teaching of Duffy et al. in the combination of Oliver, Swisher and Wolton in order to provide a method and system that is capable of monitoring power-supply induced thermal anomalies of electronic devices (Duffy et al., sections 0065 and 0083).

10. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Oliver et al. in view of Swisher et al., Wolton et al. and Shimada et al.

Oliver et al. teach a method of displaying measured parameters associated with each piece of equipment in an array of electronic equipment, comprising: retrieving data representing the measured parameters (Fig. 8; sections 0027 and 0054); mapping the measured parameters to color codes (Fig. 8; sections 0026 and 0038); displaying a graphic representation of the array of electronic equipment (Fig. 8; sections 0009, 0028, 0029); and in the graphic representation, representing each piece of electronic

equipment in the array with the color mapped to a measured parameter associated with the piece of electronic equipment (Fig. 8; sections 0009, 0028, 0029, 0054 and 0055).

Oliver et al. do not mention explicitly: retrieving data representing the measured parameters from a database; displaying a three-dimensional graphic representation of the array of electronic equipment; determining that a database update has occurred; and retrieving updated measured parameters from the database for re-displaying; wherein each graphic representation further depicts the equipment rack with a graphic representation of each piece of equipment situated in a position of the graphic representation of the equipment rack corresponding to the physical location of the equipment in the equipment rack.

Swisher et al. disclose a method and system for modeling and analyzing a network infrastructure, and teach the step and means of: retrieving data representing the information to be displayed for data visual analysis from a database (sections 0042 and 0253); displaying a graphic representation of the array of electronic equipment (sections 0016, 0024 and 0036); wherein said graphic representation further depicting the equipment rack with a graphic representation of each piece of equipment situated in a position of the graphic representation of the equipment rack corresponding to the physical location of the equipment in the equipment rack (sections 0016, 0024 and 0036).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include GIS (geographical information system) features, as taught by Swisher et al., in the invention of Oliver et al. in order to allow a user to

Art Unit: 2863

pinpoint spot any equipment to be monitored on the rack geographically (Swisher et al., Abstract).

Wolton et al. teach a method and apparatus for search, visual navigation, analysis and retrieval of information from networks, including: the graphic representation comprises a three-dimensional graphic representation (sections 0055, 0057-0059, 0081, 0153, 0290, 0413, 0586 and 0589).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the teaching of Wolton et al. in the invention of Oliver et al. in order to provide a comprehensive and user-friendly data visualization method and system for automatically engaging certain search and data retrieval activities on behalf of the user and analyzing data collected from networks of electronic equipments (Wolton et al., Abstract; sections 0057-0059 and 0161).

Shimada et al. teach an electronic device monitoring system, including: storing monitored data in a database (col. 7, lines 36-39; col. 7, lines 62-67; col. 8, lines 1-16 and col. 10, lines 3-19); determining that a database update has occurred (col. 14, lines 3-13 and lines 18-24); and retrieving updated measured parameters from the database for graphical display (col. 19, lines 66-67 and col. 20, lines 1-21).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the teaching of Shimada et al. in the combination of Oliver and Wolton in order to provide a mechanism through which the newest data information collected from the monitoring system can be displayed and analyzed

Art Unit: 2863

(Shimada et al., col. 19, lines 66-67; col. 20, lines 1-21 and col. 14, lines 3-13 and lines 18-24).

11. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Oliver et al. in view of Swisher et al., Wolton et al. and Shimada et al., as applied to claim 18 above, and further in view of Duffy et al.

Oliver et al., Swisher et al., Wolton et al. and Shimada et al. teach the method including the subject matter discussed above. The combination of Oliver, Swisher, Wolton and Shimada does not mention explicitly: the measured parameter comprises one of temperature, power, current and voltage.

Duffy et al. teach a system, device and method for monitoring and managing microelectronic device (see Abstract), including: measuring parameters such as temperature, power, current and voltage (sections 0065 and 0083).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the teaching of Duffy et al. in the combination of Oliver, Swisher, Wolton and Shimada in order to provide a method and system that is capable of monitoring power-supply induced thermal anomalies of electronic devices (Duffy et al., sections 0065 and 0083).

### ***Response to Arguments***

12. Applicant's arguments received 09/01/05 with respect to claims 1-45 have been considered but are moot in view of the new ground(s) of rejection.

Claims 1-45 are rejected as new prior art reference (U.S. Pub. No. 20040015309

to Swisher et al.) has been found to teach the limitations added in the latest amendment made by the Applicant. Please see detailed responses in sections 2-10 as set forth above in this Office Action.

**Contact Information**

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xiuqin Sun whose telephone number is (571)272-2280. The examiner can normally be reached on 6:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571)272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Xiuqin Sun  
Examiner  
Art Unit 2863

**BRYAN BUI**  
**PRIMARY EXAMINER**

